International Journal of Food Sciences and Nutrition

Contents of Volume 56

Volume 56 **Issue No. 1**

Papers

Nutritional risk factors for iron-deficiency anaemia in children 12–24 months old in the area of Thessalia in Greece
E. Tympa-Psirropoulou, C. Vagenas, D. Psirropoulos, O. Dafni, A. Matala and F. Skopouli 1

***In vitro* determination of calcium bioavailability of milk, dairy products and infant formulas**
Gülfem Ünal, Sedef Nehir El and Sevda Kiliç 13

Characteristics of yogurt-like products prepared from the combination of skim milk and soymilk containing saccharified-rice solution
Dong June Park, Sejong Oh, Kyung Hyung Ku, Chulkyoon Mok, Sae Hun Kim and Jee-Young Imm 23

Effect of ripe fruit pulp on the sensory and nutritive quality of ready-to-eat breakfast cereal produced from maize and soybean flours and cassava starch blends
N. J. Enwere and I. G. Ntuen 35

The effects of ripening stage and processing systems on vitamin C content in sweet peppers (*Capsicum annuum* L.)
Sidonia Martínez, Mercedes López, Montserrat González-Raurich and Ana Bernardo Alvarez 45

Total oxidant scavenging capacities of *Euterpe oleracea* Mart. (Açaí) fruits
Ramona Lichtenthäler, Roberta Belandrino Rodrigues, José Guilherme S. Maia, Menelaos Papagiannopoulos, Heinz Fabricius and Friedhelm Marx 53

Breakfast and the diets of Australian adults: An analysis of data from the 1995 National Nutrition Survey
Peter Williams 65

Volume 56 **Issue No. 2**

Papers

Antioxidant effect of saponin: potential action of a soybean flavonoid on glucose tolerance and risk factors for atherosclerosis
H. G. Rodrigues, Y. S. Diniz, L. A. Faine, C. M. Galhardi, R. C. Burneiko, J. A. Almeida, B. O. Ribas and E. L. B. Novelli 79

Water-binding capacity and viscosity of Australian sweet lupin kernel fibre under *in vitro* conditions simulating the human upper gastrointestinal tract
Cathryn M. Turnbull, Amynta L. Baxter and Stuart K. Johnson 87

Frequency of consumption of cariogenic food items by 4-month-old to 24-month-old children: comparison between two rural communities in KwaZulu–Natal, South Africa
Jennifer M. MacKeown and Mieke Faber 95

Some essential phytochemicals and the antioxidant potential in fresh and dried persimmon
Soon-Teck Jung, Yong-Seo Park, Zofia Zachwieja, Maria Folta, Henryk Barton, Jadwiga Piotrowicz, Elena Katrich, Simon Trakhtenberg and Shela Gorinstein 105

Intake of Mediterranean vegetable soup treated by pulsed electric fields affects plasma vitamin C and antioxidant biomarkers in humans
Concepción Sánchez-Moreno, M. Pilar Cano, Begoña de Ancos, Lucía Plaza, Begoña Olmedilla, Fernando Granado, Pedro Elez-Martínez, Olga Martín-Belloso and Antonio Martín 115

Effect of processing parameters on coconut oil expression efficiencies
Joseph Jeremiah Mpagalile and Brian Clarke 125

Growth and survival of *Escherichia coli* O157:H7 in fresh tropical fruit juices at ambient and cold temperatures
Irene Mutaku, Woldaregay Erku and Mogessie Ashenafi 133

The effect of selenium and zinc fortification on the quality of Turkish white cheese
Sanem Yalcintas Gulbas and Ilbilge Saldamli 141

Volume 56 **Issue No. 3**

Papers

***In vitro* carbohydrate digestibility of whole-chickpea and chickpea bread products**
Amanda Hawkins and Stuart K. Johnson 147

Chemical characteristics, fatty acid compositions, conjugated linoleic acid contents and cholesterol levels of some traditional Turkish cheeses
Muhammet Donmez, A. Kemal Seckin, Osman Sagdic and Bedia Simsek 157

Honey in combination with vacuum impregnation to prevent enzymatic browning of fresh-cut apples
M. Jeon and Y. Zhao 165

Quantification of alcohol in beverages by density and infrared spectroscopy methods
Ponnadurai Ramasami, Sabina Jhaumeer-Laulloo, Frédéric Cadet, Philippe Rondeau and Yogaish Soophul 177

Occurrence of yellow mosaic geminiviral disease on bitter gourd (*Momordica charantia*) and its impact on phytochemical contents
S. K. Raj, M. S. Khan, R. Singh, Nisha Kumari and Dhan Prakash 185

Adiponectin/ACP30, a collagen-like plasma protein in relation to anthropometric measurement in Thai overweight and obese subjects
R. Tungtrongchitr, P. Sricharoen, P. Pongpaew, B. Phonrat, D. Arthan, N. Vudhivai, A. Tungtrongchitr and F. P. Schelp 193

Allergenicity, trypsin inhibitor activity and nutritive quality of enzymatically modified soy proteins
Ana María Calderón de la Barca, Abraham Wall and José Alberto López-Díaz 203

Phenolic compounds in red wine digested *in vitro* in the presence of iron and other dietary factors
Konstantina Argyri, Charalampos Proestos, Michael Komaitis and Maria Kapsokefalou 213

High efficiency enrichment of total and single whey proteins by pH controlled foam fractionation
Perihan Ekici, Marlène Backleh-Sohrt and Harun Parlar 223

Volume 56 **Issue No. 4**

Papers

Proximate and mineral composition of crab meat consumed in Bahrain
Abdulrahman O. Musaiger and Mohammed J. Al-Rumaidh 231

Is there an association between the nutritional status of the mother and that of her 2-year-old to 5-year-old child?
Mieke Faber, Sonja Swanevelder and A. J. Spinnler Benadé 237

Food for two seasons: Culinary uses of non-cultivated local vegetables and mushrooms in a south Italian village
Andrea Pieroni, Sabine Nebel, Rocco Franco Santoro and Michael Heinrich 245

Infant food from quality protein maize and chickpea: Optimization for preparing and nutritional properties
C. Alarcón-Valdez, J. Milán-Carrillo, O. G. Cárdenas-Valenzuela, R. Mora-Escobedo, L. A. Bello-Pérez and C. Reyes-Moreno 273

Phenolic contents and antioxidant activity of some food and medicinal plants
Monika Bajpai, Anurag Pande, S. K. Tewari and Dhan Prakash 287

***In vitro* evaluation of iron solubility and dialyzability of various iron fortificants and of iron-fortified milk products targeted for infants and toddlers**
Maria Kapsokefalou, Isidora Alexandropoulou, Michail Komaitis and Ioannis Politis 293

Volume 56 **Issue No. 5**

Papers

Six reasons why the waist-to-height ratio is a rapid and effective global indicator for health risks of obesity and how its use could simplify the international public health message on obesity
Margaret Ashwell and Shiun Dong Hsieh 303

Validation of a semiquantitative food frequency questionnaire to assess energy and macronutrient intakes of Cuban Americans
Subrata D. Nath and Fatma G. Huffman 309

Effect of soybean fortification on Ghanaian fermented maize dough aroma
N. T. Annan, W. A. Plahar, L. Poll and M. Jakobsen 315

Effect of using seaweed (*eucheuma*) powder on the quality of fish cutlet
A. Senthil, B. S. Mamatha and M. Mahadevaswamy 327

Sodium, K, Ca, Mg, Fe, Cu, and Zn concentrations in molluscs from the Magellan Strait (Chile): Their contribution to dietary intake
M. S. Astorga España, E. M. Rodríguez Rodríguez and C. Díaz Romero 337

The effect of fermentation and storage on free amino acids of tarhana
M. Erbas, M. F. Ertugay, M. Ö. Erbas and M. Certel 349

Quantification and characterization of aortic cholesterol in rabbits fed a high-cholesterol diet
Ze Sheng Zhang, Anthony E. James, Yu Huang, Walter K. K. Ho, Daljit S. Sahota and Zhen-Yu Chen 359

Volume 56 **Issue No. 6**

Papers

Schoolchildren's food consumption and dietary intake during the dry season in north-west Namibia
Liisa Vähätalo, Vera Mikkilä and Leena Räsänen 367

Antinutritional factors and *in vitro* protein digestibility of improved haricot bean (*Phaseolus vulgaris* L.) varieties grown in Ethiopia
Emire Admassu Shimelis and Sudip Kumar Rakshit 377

Degradation kinetics of folic acid in cowpea (*Vigna catjang* L.) during cooking
P. Nisha, Rekha S. Singhal and Aniruddha B. Pandit 389

Plant foods in the management of diabetes mellitus: Spices as beneficial antidiabetic food adjuncts
K. Srinivasan 399

***In vitro* intestinal transport and antihypertensive activity of ACE inhibitory pea and whey digests**
Vanessa Vermeirssen, Patrick Augustijns, Nicole Morel, John Van Camp, Anne Opsomer and Willy Verstraete 415

Differences in reported winter and summer dietary intakes in young adults in Spain
Rosa Capita and Carlos Alonso-Calleja 431

Physicochemical, nutritional and sensory quality of stirred 'dwarf' golden apple (*Spondias cytherea* Sonn) yoghurts
Shelly Ann Bartoo and Neela Badrie 445

Volume 56 **Issue No. 7**

Papers

Evaluation of vitamin B_{12} status in Egypt IV: Food consumption patterns among lactating mothers and their impact on the intake of the vitamin
Sahar Abdel Aziz and Laila Hussein 455

Low contribution of rice and vegetables to the daily intake of selenium in Japan
Rizky Abdulah, Kaori Miyazaki, Minato Nakazawa and Hiroshi Koyama 463

Antioxidant and free radical scavenging activities of some leafy vegetables
Monika Bajpai, Alka Mishra and Dhan Prakash 473

Determination of the differences in 2-h plasma glucose values after ingestion of carbohydrate foods and oral glucose in Caribbean non-diabetic subjects
Chidum E. Ezenwaka and Risha Kalloo 483

The antioxidant and radical scavenging activities of black pepper (*Piper nigrum*) seeds
İlhami Gülçin 491

The isolation of soyasaponins by fractional precipitation, solid phase extraction, and low pressure liquid chromatography
D. M. Gurfinkel, W. F. Reynolds and A. V. Rao 501

Utilization of glycerol as carbon source on the growth, pigment and lipid production in *Spirulina platensis*
M. S. Narayan, G. P. Manoj, K. Vatchravelu, N. Bhagyalakshmi and M. Mahadevaswamy 521

The gathering and consumption of wild edible plants in the Campoo (Cantabria, Spain)
Manuel Pardo-de-Santayana, Javier Tardío and Ramón Morales 529

Volume 56 **Issue No. 8**

Papers

Ethyl acetate extract from black tea prevents neuromuscular blockade by botulinum neurotoxin type A *in vitro*
Eiki Satoh 543

Comparison of the antioxidant activity of roasted tea with green, oolong, and black teas
Eiki Satoh, Naoki Tohyama and Masakazu Nishimura 551

Relation of smoking, physical activity and living residence to body fat and fat distribution in elderly men in Greece
Sousana K. Papadopoulou, Konstantinos Laparidis and Maria Hassapidou 561

Effect of high stearic acid containing fat on markers for *in vivo* lipid peroxidation
A. Saari Csallany, C. M. Seppanen and K. L. Fritz 567

Determination of benzo[a]pyrene in charcoal grilled meat samples by HPLC with fluorescence detection
S. Fatma Aygün and Filiz Kabadayi 581

Physicochemical and nutritional characteristics of the fruit of *Zizyphus sonorensis* S. Wats (*Rhamnaceae*)
Marcelino Montiel-Herrera, Samuel Campista-León, Irma L. Camacho-Hernández, Antelmo Ríos-Morgan and Francisco Delgado-Vargas 587

Antioxidant activities of New Zealand-grown tomatoes
R. K. Toor, C.E. Lister and G.P. Savage 597

Intraplacental retinol distribution
Cláudia Saunders, Maria Do Carmo Leal, Hernando Flores, Alexandre Gonçalves Soares, Ana Paula Pereira Thiapó De Lima, Paula Costa Leite, Mirian Martins Gomes, Paulo Roberto Borges De Souza Júnior and Rejane Andréa Ramalho 607

Blood pressure lowering effect of olive is mediated through calcium channel blockade
Anwarul Hassan Gilani, Arif-Ullah Khan, Abdul Jabbar Shah, John Connor and Qaiser Jabeen 613